

Total No. of Questions : 6]

SEAT No. :

P56

OCT. -16/BE/Insem. - 108

[Total No. of Pages : 1

B.E. (Civil)

**ADVANCED ENGINEERING GEOLOGY WITH ROCK MECHANICS
(2012 Course) (Semester - I) (Elective - I)**

Time : 1Hour]

[Max. Marks :30

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagrams should be drawn wherever necessary.*

- Q1)** a) Describe the seismic zones of India on the basis of recent work. [4]
b) Differentiate between joint, fractures and fault. [6]

OR

- Q2)** Describe engineering significance of Kaladgis and Vindhyan rocks. Write one case history. [10]

- Q3)** a) Treatment to be given to a dyke crossing dam alignment. [4]
b) How location of spillway is decided on geological grounds. [6]

OR

- Q4)** Explain in detail case histories of Varasgaon and Mula dam sites, where economy has been achieved. [10]

- Q5)** Water bearing characteristics of rocks occurring in Maharashtra. [10]

OR

- Q6)** a) Write a note on success of percolation tank in Region 1. [6]
b) How climate influences the formation of soil? [4]

